



# SAMSON CREE NATION YOUTH CENTRE



The new facility is comprised of a large gymnasium, locker rooms, bouldering wall, bowling alley, library, administration, multi-purpose community spaces and concession spaces.

The mechanical systems included a high efficiency condensing boiler plant with variable flow pumps, high efficiency domestic hot water heaters, and a displacement ventilation system for the building. A demand control ventilation system was provided to respond to the variable occupancy spaces, saving ventilation heating energy. The plumbing systems are designed for water conservation and the storm systems are designed to suit the green roof provided on the lower roof levels.

The electrical systems included power distribution, lighting, AV distribution, and life safety systems. The primary energy savings features for the building focused on the lighting design incorporating a low power density and daylight and occupancy controls to minimize the lighting run hours.

Special consideration was provided for the building security system design as the building was operated beyond standard office hours. The system included a central recording system with camera strategically located for user protection, intrusion detection system, and a card access system.

The design was completed in anticipation of funding from the Federal Government.

- LOCATION** Hobbema, Canada
- CLIENT** Group 2 Architecture & Interior Design
- OWNER** Samson Cree Nation
- ARCHITECT** Group 2 Architecture & Interior Design
- SIZE** 43,056 ft<sup>2</sup>
- CONSTRUCTION VALUE** 12 Million CAD
- PROCUREMENT TYPE** Design Bid Build
- COMPLETION YEAR** Design Phase Only
- MARKET SECTOR** Sports & Entertainment

**8** DISCIPLINES

- MECHANICAL
- ELECTRICAL
- PLUMBING
- LIGHTING DESIGN
- COMMUNICATIONS & AV
- SECURITY & RISK
- COMMISSIONING
- ENERGY SERVICES

